

Sun Safe Lotion SPF50

2532-1.26



+ Hybrid product

+ Fluid texture

+ Very soft afterfeel

Phase	Name	INCI	Supplier	%
A1	DEMINERALIZED WATER	WATER	-	48.97
	KELCO-CARE™ DIUTAN GUM	SPHINGOMONAS FERMENT EXTRACT	Lubrizol	0.08
A2	GEOGARD ULTRA™	GLUCONOLACTONE, SODIUM BENZOATE, CALCIUM GLUCONATE	Lonza	0.40
A3	BUTYLENE GLYCOL	BUTYLENE GLYCOL	-	3.00
A4	PLANTACARE® 2000 UP	DECYL GLUCOSIDE, WATER	BASF	1.25
B1	UVASORB® HEB	DIETHYLHEXYL BUTAMIDO TRIAZONE	3 V Sigma	4.00
	UVINUL® A PLUS	DIETHYLAMINO HYDROXYBENZOYL HEXYL BENZOATE	BASF	5.00
	TINOSORB® S	BIS-ETHYLHEXYLOXYPHENOL METHOXYPHENYL TRIAZINE	BASF	2.00
	PARSOL® EHS	ETHYLHEXYL SALICYLATE	DSM	5.00
	CETIOL® B	DIBUTYL ADIPATE	BASF	4.50
	PRESERVATIVE	PRESERVATIVE	-	0.70
	HALLBRITE® BHB	BUTYL OCTYL SALICYLATE	Hallstar	2.50
	SCHERCEMOL DIS ESTER	DIISOPROPYL SEBACATE	Lubrizol	5.00
B2	EMULIUM® DOLCEA MB	GLYCERYL STEARATES, JOJOBA ESTERS, CETYL ALCOHOL, STEARYL ALCOHOL, HELIANTHUS ANNUUS (SUNFLOWER) SEED WAX, SODIUM STEAROYL GLUTAMATE, WATER, POLYGLYCERIN-3	Gattefossé	4.50
B3	SOLAVEIL™ HTP1 MBAL-PW-(MV)	TITANIUM DIOXIDE, STEARIC ACID, ALUMINA	Croda	6.00
	COCOATE™ BG MB	BUTYLENE GLYCOL COCOATE	Gattefossé	4.00
	MATRIFUSE™ S-1 DISPERSANT	POLYHYDROXYSTEARIC ACID, NEOPENTYL GLYCOL DIETHYLHEXANOATE	Lubrizol	1.00
	SCHERCEMOL™ PDD	DIISOSTEAROYL POLYGLYCERYL-3 DIMER DILINOLEATE	Lubrizol	2.00
C	PERFUME DOME RELAX RS59716	PARFUM	Technico-Flor	0.10
				100.00

Operating instructions

- Heat water to 75°C and add under stirring Kelco Care™ Diutan Gum, let the gel swell for 5 min, then add A2 and A3 under stirring.
- Heat B1 to 80°C under stirring until complete solubilization of UV filters, then add B2.
- Premix B3: heat the liquids at 60°C, then add slowly TiO2 under mixing (ultra turax®) and keep homogenizing for few minutes to smooth the dispersion then add slowly to emulsion under high speed mixing 2000rpm for 10min.
- Then add B3 to B1+B2.
- Add A4 to A1+A2+A3 just before emulsion to avoid foam.
- Emulsion : add B (75°C) slowly into A (75°C) under mixing 2000rpm for 15min.
- Cool to 30°C under medium speed mixing (1000 rpm).
- Add C under mixing and homogenize for 2 min.
- Complete cooling to 25°C.

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Description

This very high protection SPF50 is the best ally for sun-sensitive skin, whether in the city or at the beach. Thanks to **Emulium® Dolce MB**, the texture is fluid, soft and comfortable and leaves a very smooth, non-greasy and non-sticky afterfeel.

Specifications

- + Aspect:
Glossy and slightly yellow lotion
- + pH = 6.1 ± 0.5
- + Viscosity Brookfield RV (spindle A, speed 5):
approx. 4 500 mPa.s after 24h
- + Conform to Australian, EU, UK, MERCOSUR, and China regulations
SPF *in vivo* (ISO 24444:2019): 56 (5 subjects)
UVA *in vitro* (ISO 24443:2021): 19
Water resistance (ISO 16217:2020 and ISO 18861:2020): 56%
Critical wavelength (ISO 24443:2021): 377nm

Ingredients

- **Emulium® Dolce MB**, used at 4.5%, creates a very soft and comfortable O/W emulsion, with no tacky or greasy feel.
- Kelco-Care™ Diutan Gum is an aqueous gelling agent that helps to improve stability and performance of the protective film.
- Geogard Ultra™ is used as a pH buffer, very useful with mineral UV filters.
- **Cocoate™ BG MB** is an emollient that both solubilizes chemical UV filters, and enhances mineral UV filters dispersion. In this formula, it also contributed to the stability.
- Uvasorb® HEB, Uvinul A Plus, Tinosorb® S and Parsol® EHS are organic UV filters.
- Cetiol® B, Schercemol™ Dis Ester and Schercemol™ PDD are emollients that help to solubilize UV filters. Schercemol™ PDD also helps to improve water resistance.
- Hallbrite BHB is a SPF booster.
- Plantacare® 2000 UP and Matrifuse™ S-1 Dispersant help to keep TiO2 disperse into the emulsion.
- Solaveil® HTP1 MBAL-PW-(MV) is an inorganic non-nano UV filter.